

D1
SUB
E1
4. (**Twice Amended**) A set of oligonucleotide probes, comprising a plurality of instances of a sequence of universal and designate nucleotides and/or nucleotide analogs, wherein the universal and designate nucleotides and/or nucleotide analogs are ordered in an iterative pattern, and wherein

- (a) the pattern comprises a first string of universal nucleotides and/or nucleotide analogs followed by a first segment, and a second string of universal nucleotides and/or nucleotide analogs followed by a second segment,
- (b) the first string and the second string each comprise a universal nucleotide and/or nucleotide analog, and
- (c) the first segment and the second segment each comprise a designate nucleotide.

D2
7. (**Twice Amended**) A set of oligonucleotide probes, comprising a plurality of instances of a sequence of universal and designate nucleotides and/or nucleotide analogs ordered in a pattern, wherein the probes are displayed on a solid support and wherein

- (a) the pattern comprises a first string of universal nucleotides and/or nucleotide analogs followed by a first segment, and a second string of universal nucleotides and/or nucleotide analogs followed by a second segment,
- (b) the first string and the second string each comprise a universal nucleotide and/or nucleotide analog, and
- (c) the first segment and the second segment each comprise a designate nucleotide.

D3
8. (**Twice Amended**) A sequencing array, comprising

a substrate, and

a set of oligonucleotide probes disposed thereon, wherein each probe comprises an instance of a pattern of universal and designate nucleotides and/or nucleotide analogs such that the set comprises a plurality of instances of the pattern, and wherein

- D3
Canceled
- (a) the pattern comprises a first string of universal nucleotides and/or nucleotide analogs followed by a first segment, and a second string of universal nucleotides and/or nucleotide analogs followed by a second segment,
 - (b) the first string and the second string each comprise a universal nucleotide and/or nucleotide analog, and
 - (c) the first segment and the second segment each comprise a designate nucleotide.
-

9. (Canceled)

D4

20. (Amended) An oligonucleotide probe, comprising a sequence of universal and designate nucleotides and/or nucleotide analogs ordered in a pattern, wherein

- (a) the pattern comprises a first string of universal nucleotides and/or nucleotide analogs, followed by a first segment, and a second string of universal nucleotides and/or nucleotide analogs followed by a second segment,
- (b) the first and second strings each comprise two or more consecutive universal nucleotides and/or nucleotide analogs, and
- (c) the first and second segments comprise at least one designate nucleotide and/or nucleotide analog.

21. (Amended) The probe of claim 20, having a universal nucleotide and/or nucleotide analog selected from the group consisting of 5-nitroindole and 3-nitropyrrole.

22. (Amended) The probe of claim 20, further comprising at least two contiguous designate nucleotides and/or nucleotide analogs bound to an end of the sequence.

23. (Amended) The probe of claim 20, wherein the universal and designate nucleotides and/or nucleotide analogs are linked by analogs of phosphodiester bonds.

24. (Amended) The probe of claim 20, wherein the universal and designate nucleotides and/or nucleotide analogs are peptide nucleic acids.
